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Avion 1985-11-20

Embry-Riddle Aeronautical University

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Ten Year Tuition Rate History

Marketing agent for Agusta Aviation, Francesco Clonfero, and Caproni chief test pilot Paolo Barberis flew the aircraft to ERAU at the invitation of Flight Department Chairman Paul McDuffee. McDuffee met Clonfero at the recent National Business Aircraft Association (NBAA) convention and invited

him to the NBAA convention in New Orleans. The aircraft is now touring the Southeast U.S. Clonfero said he and Barberis are flying the aircraft around the United States to "help determine the prospective market size here." Clonfero explained, "we are aiming at both the civilian and military markets. For the

fully-aerobatic aircraft is a major selling point," said Clonfero. Embry-Riddle has no plans at this time to purchase any of the aircraft. Asked when Embry-Riddle's flight line might be graced by the diminutive Jet, McDuffee said with a broad smile, "No comment!" Clonfero said, "the military market is there... for example, it

can accommodate positive 7 G's and negative 3.5 G's. Clonfero explained the aircraft's structure consists mostly of "light alloy, with fiberglass canopy frame and engine cover." Composite materials are used for the main

See JET, page 3

Admission requirements include a combined score of 1100 on the Graduate Record Examination (GRE). The GRE, which is necessary for admission to the MSAE program, is an aptitude test that measures quantitative and communicative skills. It is a generalized examination similar to the familiar Scholastic Aptitude Test (SAT), but is directed solely towards Engineering graduate-level entry.

Also, to qualify, students must have an ABET - Accredited Bachelor of Science degree in Aeronautical or Aerospace Engineering, and a 3.00 GPA in Junior and Senior courses.

However, possible exceptions for admittance will allow a student to enter on a conditional basis. This is a trial program where the student would take appropriate courses, to show aptitude and ability, and be required to obtain a grade of "B" or better in the curriculum to continue in the program.

The MSAE degree required a minimum of 36 credit hours or graduate coursework. 18 of these credit hours must be in 600-level courses. The graduate must have a

schedule of courses, including mandatory prerequisites. There are many positive and negative aspects to this policy.

On the positive side, it will increase the number of electives available while reducing instructor workload, eliminate students who do not meet the prerequisites from enrolling in a class they are not supposed to take, speed up a student's graduation (provided that he does not have to repeat the course, and it will make more time available for instructor and professor research.

Negative side

On the negative side, the policy will affect students who did not enter the university under this program by extending their graduation date. It will affect students who transferred into Engineering and did not strictly follow the vertical outline.

The policy will limit the student's ability to set his own pace by requiring a student who fails a course to wait one year before repeating it. The outline may

See ESAC, page 13

ERAU aircraft overcome problems

By Richard S. Calvert

Two Embry-Riddle Cessna 303 Crusaders experienced minor mechanical problems last week while flying in the Daytona Beach area.

The aircraft, known as Riddle 2 and Riddle 3, are two of the newest additions to the ERAU fleet.

According to Jack Haun, Chief of Maintenance at the Flight Department, Cessna 212ER "experienced a minor

glitch in the (landing gear) system."

The plane, a twin-engine, turbocharged design with a retractable landing assembly, was in flight after takeoff when the gear failed to retract completely on command. When the crew discovered that the system would not operate properly, they immediately secured the gear in the down-locked position.

On return to Daytona Beach, Riddle 2 taxied to Daytona Beach Aviation for testing and

repairs. During an extensive examination, mechanics were unable to duplicate the breakdown.

Another aircraft, Riddle 3, experienced other difficulties last Tuesday while airborne. Over the Ormond Beach area, the plane was practicing Vmc maneuvers (minimum control speed with critical engine inoperative) when the left engine went into a disabling mode known as feathering. The engine, suffering a propeller governor problem, could not be

returned to normal operations.

Limping back to Daytona on the right powerplant, the aircraft made a textbook landing and received escort from emergency ground crews back to the Riddle Ramp, where it remained inactive until Thursday.

When asked about the Crusader mishaps, Jack Haun commented, "The problems we're having with the Crusader are nothing compared to those we

See GEAR, page 9

Chancellor: inflation equals tuition hike

ERAU fees comparable to other private colleges

By Patrick McCarthy

Embry-Riddle's Board of Trustees has approved a tuition increase of \$10.00 per credit hour, effective for the Fall trimester of 1986.

In a recent interview, Chancellor Eric Doten, Dean of Academics Luther Reisbig, University Budget Director Steve Whitmer, and Director of Community Relations Lee Daniel explained the Board's rationale for implementing the tuition increase.

The "Technical program fee" will be used to replace most of the current laboratory fees. "The idea behind the technical fee is to cover the incidental costs of implementing various programs," said Reisbig. "We want to get out of an illogical mode and to a more logical mode," he added. "We want to cover the true cost of running a program," said Reisbig. Whitmer explained, "It is more advantageous this way. We don't have to change tuition to cover the costs associated with any one program."

Doten presented a tuition rate history

comparing ERAU's average tuition with other four-year private colleges. Doten also presented figures comparing past increases in tuition with the Higher Education Price Index and Consumer Price Index.

"Tuition will continue to increase in the foreseeable future," said Doten, "we would prefer modest increases rather than holding tuition level for a few years and then having to increase it 18 percent to break even." Doten was referring to a situation which occurred after fiscal year 1983-84, when tuition was not increased, necessitating a large increase in the fiscal 1985 tuition.

One of the main reasons for the tuition increase is to cover increased payroll expenses. Whitmer projects a \$2.5 million payroll increase for next year. Personnel costs are a major fraction (almost two-thirds) of the entire budget expense.

Whitmer says there are other expenses which are driving the university budget higher. "In the past year, our utility costs have really gone up," said Whitmer.

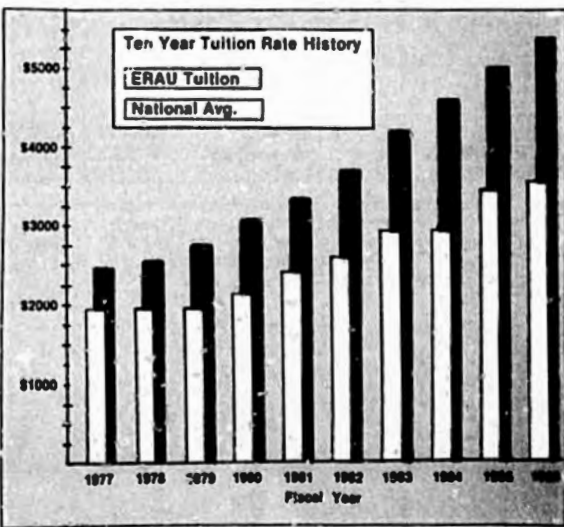
"And insurance costs have gone up about 50 percent," he added.

"Our budget process is done on an 18-month plan," said Whitmer, "but we have to recognize some budget uncertainty. Right now, we are in the middle of developing the 1987 budget, and we have to be able to accommodate contingencies that may come up. Operations and capital expenditures are still in the formulation stage."

Doten added, "We need to guarantee a measure of budget stability and guarantee the future of the institution." A modest increase in tuition is seen as a way to achieve budget planning stability.

The university capital budget for fiscal 1987 will need to cover equipment costs and the maintenance of the school's current assets. Total revenues are expected to increase to \$47 million, up from \$43 million for fiscal year 1986, or about a 10 percent increase. "This is break-even," said Doten, "expenses are expected to in-

See HIKE, page 13



A time to give thanks

THANKSGIVING DAY, 1985

Although the time and date of the first American thanksgiving observance may be uncertain, there is no question but that this treasured custom derives from our Judeo-Christian heritage. "Unto Thee, O God, do we give thanks," the Psalmist sang, praising God not only for the "wondrous works" of His creation, but for loving guidance and deliverance from dangers.

A band of settlers arriving in Maine in 1607 held a service of thanks for their safe journey, and twelve years later settlers in Virginia set aside a day of thanksgiving for their survival. In 1621 Governor William Bradford created the most famous of all such observances at Plymouth Colony when a bounteous harvest prompted him to proclaim a special day "to render thanksgiving to the Almighty God for all His blessings." The Spaniards in California and the Dutch in New Amsterdam also held services to give public thanks to God.

In 1777, during our War of Independence, the Continental Congress set aside a day for thanksgiving and praise for our victory at the battle of Saratoga. It was the first time all the colonies took part in such an event on the same day. The following year, upon news that France was coming to our aid, George Washington at Valley Forge prescribed a special day of thanksgiving.

Although there were many state and national thanksgiving days proclaimed in the ensuing years, it was the tireless crusade of one woman, Sarah Josepha Hale, that finally led to the establishment of this beautiful feast as an annual nationwide observance. Her editorials so touched the heart of Abraham Lincoln that in 1863 — even in the midst of the Civil War — he enjoined his countrymen to be mindful of their many blessings, cautioning them not to forget "the source from which they come," that they are "the gracious gifts of the Most High God..."

It is in that spirit that I now invite all Americans to take part again in this beautiful tradition with its roots deep in our history and deeper still in our hearts. We manifest our gratitude to God for the many blessings he has showered upon our land and upon its people.

In this season of Thanksgiving we are grateful for our abundant harvests and the productivity of our industries; for the discoveries of our laboratories; for the researches of our scientists and scholars; for the achievements of our artists, musicians, writers, clergy, teachers, physicians, businessmen, engineers, public servants, farmers, mechanics, artisans, and workers of every sort whose honest toil of mind and body in a free land rewards them and their families and enriches our entire Nation.

Let us thank God for our families, friends, and neighbors, and for the joy of this very festival we celebrate in His name. Let every heart join in worship in



Letters to the Editor

Lack of Pride

To the Editor:

After reading John Hawman's letter, I decided that it was my turn. I didn't see any of the antics Mr. Hawman wrote about, but I do truly understand where he is coming from.

Being a senior, I passed through my gullible stage at this school a couple of years ago, and planned on this letter being written sometime before graduation.

Overall, there is something grossly wrong at this school. I can't put my finger on it, but I realize it's there, and that's a start. Our administration is as

warehouse engineering and AMT buildings, a U.C. that's falling apart (look around the next time

you're in it), an under-paid faculty (as if you didn't know), classrooms that are aging faster than maintenance can keep up, outdated equipment, and, let's not forget the beautiful landscape. The list goes on...

I can't see how our tour guides can actually "show off" our campus without busting out laughing. I am not implying that our school should look like Ivy League, but I'm trying to open some eyes (and some mouths).

For example, compare Riddle to a community college (not necessarily DBCC). Now, I

they know how to stay in the black today and worry about tomorrow when it gets here.

I don't know about the rest of you, but I don't want to tell my grandkids that my alma mater no longer exists due to bankruptcy from re-reconstruction.

Now—tuition increase or not, our good money is going somewhere, right? If it's not going to Prescott? (which is the usual answer), then **WHERE THE HELL IS IT GOING???**

Basically, I am satisfied with my education; it's been a long, hard road so far, but it's been worth it.

I point at the campus itself because this is where pride would be if it could be. What I'm try-

Not comprehensive

To the Editor:

As a student at ERAU, I feel that the school newspaper, the Avion, is not very comprehensive in discussing topics. I base this on the fact that it either complains about SGA representatives or talks about clubs and other miscellaneous activities.

Perhaps you should look at other university papers (i.e., Purdue, Illinois, Mid Tennessee State). They all happen to be aviation oriented. You would see that their newspapers are twice as informative and interesting in their coverage of Aeronautical Positions. I personally feel that articles on job placement and salaries offered for ERAU

thank to God.

In 1777, during our War of Independence, the Continental Congress set aside a day for thanksgiving and praise for our victory at the battle of Saratoga. It was the first time all the colonies took part in such an event on the same day. The following year, upon news that France was coming to our aid, George Washington at Valley Forge prescribed a special day of thanksgiving.

Although there were many state and national thanksgiving days proclaimed in the ensuing years, it was the tireless crusade of one woman, Sarah Josepha Hale, that finally led to the establishment of this beautiful feast as an annual nationwide observance. Her editorials so touched the heart of Abraham Lincoln that in 1863 — even in the midst of the Civil War — he enjoined his countrymen to be mindful of their many blessings, cautioning them not to forget "the source from which they come," that they are "the gracious gifts of the Most High God..."

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Let us thank God for our families, friends, and neighbors, and for the joy of this very festival we celebrate in His name. Let every heart be filled with the spirit of gratitude and praise and love on this Thanksgiving Day.

Ronald Reagan

Klyde Morris

wes oleszewski



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This week's staff: John Trombly, Brian Nicklas, Rob Watt, Sabrina Pichel, Pete Meilin, Angel Rovato, John Geisy

Let's thank God for our families, friends, and neighbors, and for the joy of this very festival we celebrate in His name. Let every house of worship in the land and every home and every heart be filled with the spirit of gratitude and praise and love on this Thanksgiving Day.

Ronald Reagan

can't put my finger on it, but I realize it's there, and that's a start. Our administration is as knee-deep in it as a presidential campaign. We are promised this, promised that, and so-on and so-forth. Want to do we get?

A few examples: shell and/or semi-blacktopped parking lots, a \$2 million library that is actually a warehouse in disguise,

For example, compare Riddle to a community college (not necessarily DBCC). Now, I understand that these schools receive government dollars, but nobody can convince me that it doesn't also take good leadership. Certainly one problem here is planning. Does the administration know what long-term planning is? Apparently not. It seems

I point at the campus itself because this is where pride would be (if it could be). What I'm trying to say is that when I show relatives and friends from home "my school", they frown. So come on, Mr. Doten, stop dreaming and give us something we can be proud of now!

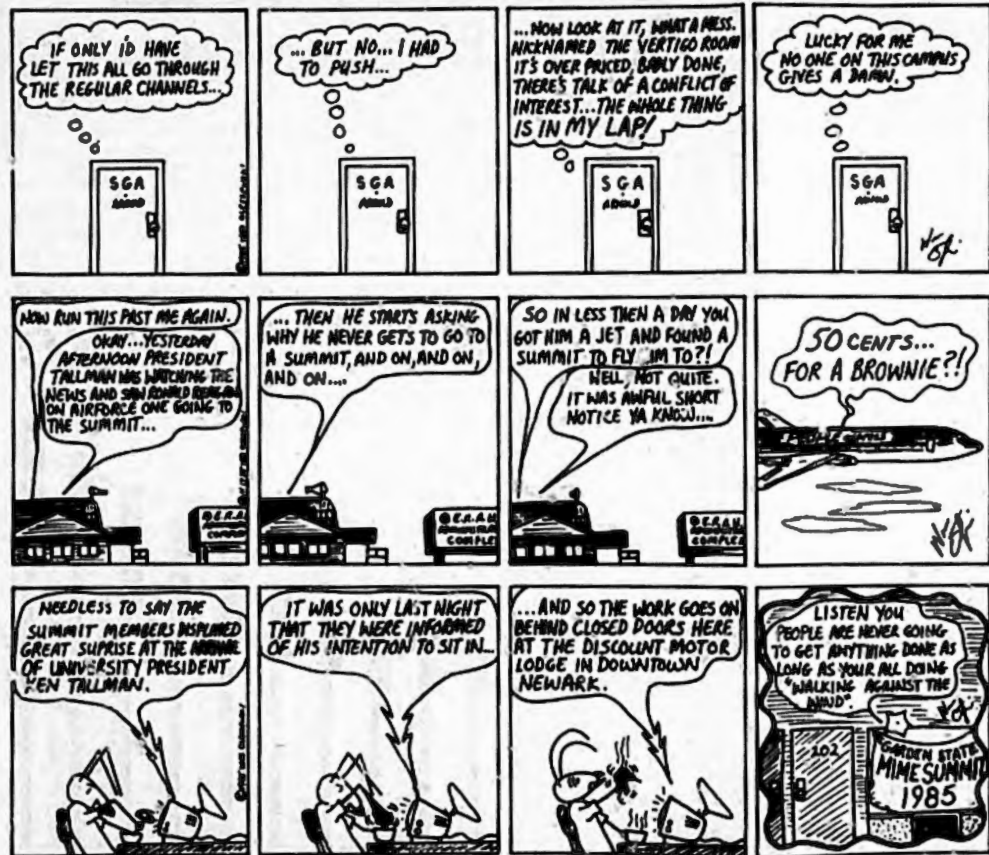
Tim Smith
Box 6834

their coverage of Aeronautical Positions. I personally feel that articles on job placement and salaries offered for ERAU graduates would be effective. Additionally, topics such as student aid, aviation field employment opportunities and some national level articles would offer some reading improvement.

Alfie Kelly
Box 5056

Klyde Morris

wes oleszewski



Avion

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The opinions expressed in this newspaper are those of the majority of the Editorial Board, and do not necessarily represent those of the university, the staff of the Avion, or the members of the student body. Letters appearing in the Avion do not necessarily reflect the opinions of this newspaper or its staff. Letters submitted may be edited for brevity and may be printed provided they are not lewd, obscene, or libelous. All letters must be accompanied by the signature of the writer. Letter writers shall confine themselves to one topic. Names may be withheld on request at the discretion of the Editor.

The Avion Editorial Board members are: Patrick W. McCarthy, Gordon F. Crago, James Banke, Tim Van Milligan, Richard Calvert, and Mark Stern-Montagny. The Avion is an Associated Press affiliate newspaper, and subscribes to the Campus News Digest and College Press Service. The Avion is a member of the Columbia Scholastic Press Association, College Media Advisers, and the Associated College Press.

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AP Associated Press

Veterans apply for medals earned in past experiences

By Jack Anderson and Joseph Spear

WASHINGTON— Perhaps spurred by gray hair and a small child's question, "What did you do in the war, grandpa?" thousands of aging veterans have been applying to the government for the medals they earned when they were young and took a lighter view of their recognition. Many of them have discovered that the military bureaucracy can be as tricky as a jungle trail or the flat over Fortresses Europe. Take Sam Sortland, 71, of Ambrose, N.D., a small town near the Canadian border. He believes he deserves a Purple Heart for the tortures he suffered as a prisoner of war in World War II, which left him blind. The Pentagon said: nothing done. Sortland and his Army Air Corps unit were taken prisoner by the Japanese in May 1942, on the surrender of Corregidor, the tiny rock island at the entrance to Manila Bay. For nearly two years, they were systematically beaten and starved. By the time U.S. Rangers rescued the handful of survivors on Feb. 4, 1945,

Sortland weighed 70 pounds, had lost his teeth and was blind. Yet when Rep. Byron Dorgan, D-N.D., tried to pay a Purple Heart out of the Air Force recently for his constituent, he got this reply: "An analysis of these cases showed that many prisoners of war had been awarded Purple Hearts on what would have been insufficient evidence to support the award to a soldier who was engaged in actual combat on the field of battle. It would be extremely difficult to define brutality, starvation or malnutrition of the purposes of award of the Purple Heart." Sortland, the Pentagon explained, would be entitled to the medal if he had been wounded while being captured, when trying to escape or during bombardment of the prison. The distinction is lost on Sortland. "Whether you got blind fighting or blind in prison camp doesn't matter," he told one reporter, Jenny Cunningham. "You're just as blind either way." By way of a consolation prize, Sortland will be awarded a

Bronze Star at a North Dakota air base, thanks to his congressman's efforts. "People like Sam have a right to be recognized," Dorgan said. "The little things are important. They demonstrate that this country doesn't forget." Not everyone would agree with this chummy assessment. Rep. Barbara Boxer, D-Calif., asked the General Accounting Office to investigate the military awards program after she learned that a constituent had been waiting 40 years for the 14 medals he had earned in World War II. The GAO reported that two magazine articles, telling how to apply for medals earned but never received, had generated a backlog of 14,000 applications in 1983. The situation has improved since then, the auditors found, but they warned that proposed changes in the system could create another major backlog. Currently, only the Army processes its own medal requests. The military says that requests from veterans are handled by the National Archives records center.



By Leslie Whitmer Recreation Dept.

ARE YOU A SPORTS PARTICIPANT? Life-long activities require life-long health. If you are a smoker, you are endangering your health and your chances of an active lifestyle when you reach middle age. 30 million Americans have quit smoking. Evidence has proven that what once was considered just a bad habit is a major threat to personal health. For whatever reason you started smoking, there have to be

FLASH For Lethal And Student Health

three times that many reasons to quit. None of us were born craving cigarettes. It was choice. Smokers have become so accustomed to the warning ads on cigarette packs, they don't even notice them. This has prompted a new piece of legislation which went into effect October 13, bringing public awareness back to the warnings by rotating four different warning messages on cigarette packs. The rate of death from heart disease, lung cancer, strokes, miscarriage, birth defects and respiratory ailments among others, ranges anywhere from six to fifteen times higher among smokers as non-smokers. A tragic number of people in their 40's and 50's are disabled or die prematurely due to smoking-related illnesses. Young people

who smoke might think that if smoking is that bad for them, the damage is already done—no necessarily so. When you quit smoking your risk goes down, unless irreversible disease has begun. Immediately the level of risk begins to drop and eventually will reach the same level as the non-smoker. Anyone can enjoy a life of productivity and activity for a much longer period of time simply by taking care of himself or herself. Join the 30 million people who have quit "QUITTING" if you need motivation, think of what your life will be 20 years from now. Will you be able to participate in sports, or will you be coughing from the sidelines or in front of the T.V. set? The decision is yours. Take the step now to an active lifestyle. Join in the "Great American Smoke Out," Thursday, November 21st. Try it for just one day... and then another, and soon you will be able to say, "I DID IT...I STOPPED SMOKING!" You can do it! Do it now...before you too!

Foreign teachers moved out

By College Press Service

(CPS)— More schools in recent weeks have moved to keep hard-to-understand foreign teaching assistants out of college classrooms. The wave of complaints from students who said they had trouble deciphering the accents and speech of their teachers seemed to crest last year as colleges, which regularly assign grad students to teach lower-level courses, literally began to run out of native Americans to teach in some disciplines like engineering and computer science. Georgia, Arizona State and most of the public colleges in Florida and Oklahoma for the

their teaching assignments. University of Texas and Southern California administrators two weeks ago announced they might soon give oral English exams to foreign grad students. In all, more than 100 schools have bought Educational Testing Service (ETS) English tests to give foreign-born teaching assistants over the last year, the ETS says. So far, colleges around the country report they haven't had to push many foreign-born grad students out of their teaching duties. But all the effort ultimately could rob grad schools of students needed to keep their

undergraduate courses, some educators worry. The foreign-born teaching assistants themselves, moreover, fear the testing will cost them their stipends, on which they depend to stay in the country. The teaching stipend is "the main income for us," explains Chung Kuang Chao, president of Arizona State's Chinese (Taiwanese) Students Association. He says foreign students have a very difficult time getting other jobs off campus. "We can't bring someone from half way around the world and say your stipend is cut off," adds Marilyn Baker, associate dean of Southern Cal's graduate school.

Kohlman says graduation problems solved by fairness to ERAU policies

By Jeff A. Kohlman SGA Vice-President

Recently, there have been some concerns over the University not allowing students to participate in graduating ceremonies until ALL academic courses, flight courses, and fees paid. This rule has been on the books for past graduations but is now to be enforced by the University Administration. If a student feels he or she has a legitimate reason to request special consideration for attending graduation, it should be submitted in writing to their Pro-

gram Chairman. This written statement should contain their request, reason for the need of consideration, and the cause of need. If you have an academic class to complete, you will be here until the next graduation. The flight students that have been delayed for reasons beyond their control in flight training and will complete the required course after the graduation ceremony will have the best chance of special consideration. To help your chance, it is suggested to have a letter from your instructor, attached to your request stating his expecta-

tion of your completion date in flight. If you feel the decision of your Program Chairman was unfair, you may appeal to the Dean of your College, and again if dissatisfied, to the Dean of Academics. Students that owe the University fees and are unable to complete payment before the graduation ceremony must negotiate for special consideration to participate in the ceremony with the Bursar and the Business Office. The best advice to you is to be fair to the University, and they should be fair to you.

JET

(continued from page 1)

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JET

(continued from page 1)

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According to Clonfero, the aircraft is in its final certification stage by the Italian government. "That should be complete by the end of this year or early 1986. We

expect FAA type certification in the Spring of 1986."

Production of the new aircraft is dependent on the response received from the marketing effort. Barberis retired four years ago to take a job in industry. Barberis flew with the Freccia Tricolore, the Italian Air Force's precision flight demonstration team.

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The AVION

will be taking a week off for Thanksgiving.

Deadline for the December 4 issue will be 5:00 p.m. Wednesday, Nov. 27

Happy Thanksgiving from the AVION staff!

Ridgecrest Park APARTMENTS

258-3800

- 1 1/2 miles from ERAU
- Newly remodeled spacious 1 & 2 bedroom apt's
- Beautifully landscaped 50 acres
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A window office like this is waiting for you as a pilot in the Navy. You may fly anything from the latest jets to helicopters. Whatever your window office, it comes with a clear view of a bright future.

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It's a big challenge with big rewards. First of all, you're a Navy pilot. And after only four years you'll be earning over \$30,000. Plus there is an outstanding benefits package: 30 days' paid vacation earned each

Florida and Oklahoma for the first time have just given foreign-born TAs tests on their English speaking abilities. Those who don't pass will be shuffled out of

students needed to keep their enrollments up, make campuses much less vital and interesting places to be, and even lead to a teacher shortage in lower-level

Southern Cal, among others, is trying to judge foreign students'

See MONEY, page 11

According to Clonfero, the aircraft is in its final certification stage by the Italian government. "That should be complete by the end of this year or early 1986. We

is dependent on the response received from the marketing tour. Said Clonfero, "by November or December of next year, the first production model should be complete."

Air Force, Barberis retired four years ago to take a job in industry. Barberis flew with the Freccia Tricolore, the Italian Air Force's precision flight demonstration team.

The AVION

will be taking a week off for Thanksgiving.

Deadline for the December 4 issue will be 5:00 p.m. Wednesday, Nov. 27

Happy Thanksgiving from the AVION staff!



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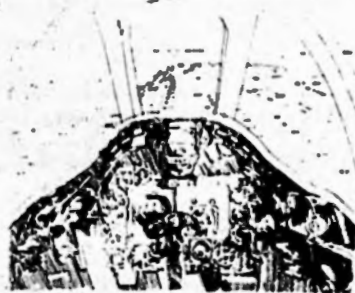
A special invitation:

You are invited to participate in a special dinner meeting of the Management Club, Inc. The Nov. 22 guest speaker is Mr. Joe Lapensky, Chairman of the Board, Northwest Airlines, Inc. based in Minneapolis/St. Paul, MN. The dinner will be held at Indigo Lakes Banquet Center at 7:00 p.m. Please RSVP to Arnold Leonora, Ext. 1080, or to Box 3205

Window Office Available For Upwardly Mobile Young Executive.

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Guest Commentary

They would do each an equal injustice.

Perhaps the only answer is for everyone to buy his own personal satellite dish and tune in to NASA Select's live, uninterrupted audio and video channel of current NASA activities. This way we could watch something intelligent on our television sets for a change. Of course if we were all to buy satellite dishes there would be no need for TV's 2, 6, or 9.

Perhaps the answer is to hire reporters with a sound working knowledge of the space effort. This could lead to a spark of interest among the viewing public. People who paid for the space program with their tax dollars want to be informed not bored by elementary explanations and mindless leading questions.

the nation's next step into space. Johnson came to give these potential space-workers an overview of NASA's reasoning behind building the Station.

The lecture also included an explanation of the development phases the Station is going through, a description of what the space-facility hopes to accomplish, as well as an update on current Space Station activity.

Johnson explained that NASA's manned space programs have followed a natural progression and that the next logical step

facility in low Earth orbit.

With the reverse actually hap-

"...we're going to have a difficult time getting (the Space Station) funded in this era."

Jim Johnson

SkyLab, and to some extent the Apollo-Soyuz Test Project, met these goals in the 1970's. The Space Shuttle now gives routine access to Earth orbit.

With phases of pioneering, exploration, a space operations facility, and routine access accomplished, Johnson concluded

pening, and the current budget deficit crisis that the United States' Congress is facing Johnson said "...we're going to have a difficult time getting funded in this era."

The total amount NASA can spend on the Space Station is \$8 billion in 1984 dollars. The actual

minutes. "By the time we get up there," Johnson said, "they will have gained 13 years of experience at the time we begin to do the same sort of thing."

Johnson commented that the Russians have provided our Space Station designers with some valuable psychological lessons about prolonged life in orbit. Windows and free time will be an important part of life in space.

That doesn't mean that

See SPACE, page 11

A CLOSE ENCOUNTER OF THE VERY BEST KIND.

Chairman of the Bd., Northwest Airlines Inc., Mr. Joe Lapensky, will speak at the Nov. 22 Management Club Dinner, RSVP X1080

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Halley's Comet debuts in Daytona's evening sky

Embry-Riddle students get once-in-a-lifetime look

By Jim Banke

Halley's comet is alive and well for its latest visit to the center of the solar system.

Unfortunately, students at Embry-Riddle who know where to look are either not finding it, or become disappointed when they do see it — it looks like a small blur of fuzz with no distinct tail.

Things will get better for watching the comet as we head into the new year. By late December you should be able to see it clearly with binoculars. The comet is visible now with good binoculars and small telescopes. (See diagram)

Halley is fast approaching the end of a six billion mile trip since the comet was last seen in 1910. On a highly elliptical orbit, Halley's Comet started on its return leg in 1948. In 1970 it was as far away as the planet Neptune. Seven years later it crossed the orbit of Uranus.

In October, 1982, astronomers took pictures of Halley's Comet through the 200-inch telescope at the Palomar Observatory near San Diego, California.

Dr. Fleck, an astronomy professor at Embry-Riddle, will give a brief introduction to Halley's Comet tonight (Wednesday) at the weekly meeting of the L3 Aerospace Society. Anyone interested in learning where and when to look for the comet in the Daytona sky may attend this meeting. It is at 7:30 p.m. in room E-611.

The famous comet, which makes an orbit of the Earth about every 76 years, should be visible in December and part of January before the sun blocks the view. It will re-emerge from behind the sun in mid-March, and will reach its closest point to the Earth, about 39 million miles on April 11, before starting its journey back to outer space.

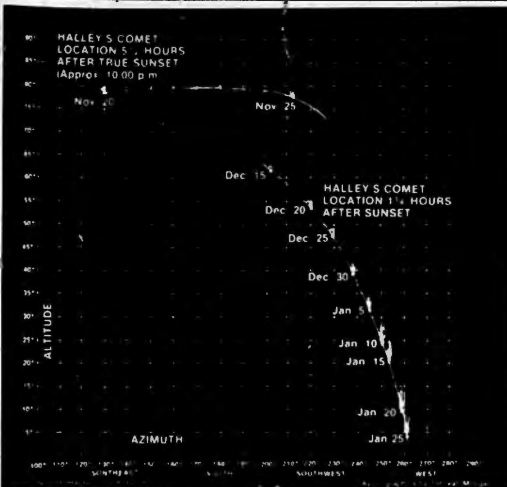
Astronomers say the comet is not expected to be as bright...its time around as it was in 1910.

The comet should become barely visible with the naked eye in December, when it will be high in the southern part of the sky. In January 1986, Halley's will gradually brighten, but it will also sink closer and closer to the horizon in the western sky.

For most of February, it will be lost from view as it swings around the sun. When it returns in March and April, Halley's will be in the sky in the early morning, just before dawn. Unfortunately, it will be so close to the southern horizon that it will be hard to see in northern parts of the country.

Halley's Comet will be visible mid-way through next April. Its tail will be at its longest in March.

Editors Note: The Avion will continue to publish a diagram of where to look each month the Comet is visible. We will also cover the history of the Comet and the fly-by of several spacecraft, with the Comet.



NASA's Next Shuttle Launch

November 26, 1985
Orbiter: Atlantis
Launch: 7:29 p.m.
Window: Nine minutes

This night launch will, weather permitting, be very visible from the Daytona area. See Avion, Oct. 30, page 8 for map of prime viewing areas near the Kennedy Space Center.

Associated Press

VANDENBERG AIR FORCE BASE, Calif. — Although March 20 remains the scheduled date for the first West Coast launch of the space shuttle, a top Air Force official says it almost certainly will be delayed.

"It will be tough to make the March date," Air Force Undersecretary Edward C. "Pet" Aldridge Jr., who will be an astronaut on the flight, told about 300 military and aerospace officials attending a Thursday symposium.

Aldridge, who goes to Houston next week to start conditiong, was not specific about when Discovery would blast off from Vandenberg, but said: "We won't make it (the March 20 date) exactly; there will probably be some slippage."

Li. Thom Connell, an Air Force spokesman, said Friday that there has been no official change in plans for Discovery to blast off March 20 from the new, \$2.8 billion shuttle launch complex at the coastal military base. But "if the undersecretary of the Air Force is saying it's going

to slip a little bit, that's probably our new official position," Connell said.

The schedule depends on how well testing proceeds on fuel systems at the launch complex.

During his speech, Aldridge repeated a suggestion he made in October that the launch complex be renamed the "Ronald Reagan Space Flight Facilities" as a tribute to President Reagan.

Aldridge indicated he doesn't like the existing name, Space Launch Complex-6, which base officials and workers call "Slack-6."

The undersecretary also repeated that he has confidence in the construction of the launch complex, saying he only has "about four microseconds' worth" of anxiety about being shot into space.

Last year, NBC News quoted unidentified inspectors as saying bad welds and wiring at the launch complex could lead to a disaster at blastoff. At the time, the Air Force and Aldridge denied any possibility of a launch mishap and said welding and other problems were being corrected.

Chief Engineer of the Starship USS Enterprise James "Scotty" Doohan

is beaming down to the ERAU University Center

near the Kennedy Space Center.

about 300 military and aerospace officials attending a Thursday symposium.

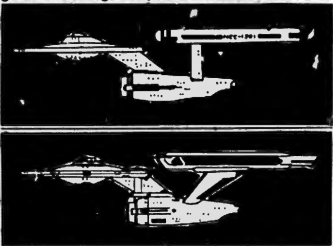
plex at the coastal military base. But "if the undersecretary of the Air Force is saying it's going

Launch Complex-6, which base officials and workers call "Slack-6."

mishap and said welding and other problems were being corrected.

Chief Engineer of the Starship USS Enterprise James "Scotty" Doohan

is beaming down to the ERAU University Center
On Monday, November 25 at 8:30 p.m.
Scotty will be lecturing and showing bloopers from Star Trek clips



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Orbiter Enterprise leaves for museum rendezvous

National Aeronautics and Space Administration

Kennedy Space Center, Fla.—On Dec. 6, 1985, NASA will transfer title to Space Shuttle Orbiter *Enterprise* to the Smithsonian Institution's National Air and Space Museum.

Enterprise has been delivered atop the NASA Shuttle Carrier Aircraft, a modified Boeing 747, to Washington Dulles International Airport last Monday. *Enterprise* will be removed from the top of the 747 and lowered to the tarmac at Dulles by use of cranes.

The *Enterprise*, Space Shuttle orbiter vehicle 101 (OV 101), was the first orbiter constructed by Rockwell International, NASA's Space Shuttle prime contractor. The orbiter was designed to test airframe loads, flight dynamics characteristics and other aspects of the orbiter as they fly through the Earth's atmosphere.

Enterprise was used as a test bed for manufacturing techniques, aerodynamics and flight control tests and mating and fit checks for the remainder of the Shuttle components—the external tank, solid rocket boosters and mobile launch platforms at

both Kennedy Space Center, Fla., and at Vandenberg Air Force Base, Calif.

On Sept. 17, 1976, *Enterprise* was rolled out from Rockwell's assembly facility, Palmdale, Calif. It then was transported 36 miles overland to Dryden Flight Research Facility on Jan. 31, 1977, and was first flown aboard the modified 747 beginning on Feb. 15, 1977, during 12 tests at Edwards Air Force Base. *Enterprise* air flight tests consisted of three test flights, five unmanned "captive" flights aboard the 747 and three manned captive test flights with *Enterprise* systems running but the orbiter remaining attached to the 747.

These flights were followed by five Approach and Landing Tests with the final test being conducted on Oct. 22, 1977. The commander and pilot for these flights alternated between the astronaut teams of Fred Haise (commander) and C. Gordon Fullerton (pilot) and Joe Engle (commander) and Richard Truly (pilot).

All tests were conducted in the desert air above Edwards Air Force Base and verified the airframe and mechanics and electrical components of the orbiter

system and helped fine tune the flight control and flight management procedures then being developed by the astronaut-flight control team from Johnson Space Center, Houston.

Following the Approach and Landing Tests, the *Enterprise* was used for a series of ground vibration tests at the Marshall Space Flight Center, Huntsville, Ala.

After the ground vibration tests, *Enterprise* was used at Kennedy Space Center in conjunction with the other Shuttle components and the mobile launch systems. *Enterprise* was most recently involved in similar fit checks at the Shuttle Launch Complex at Vandenberg Air Force Base.

In addition to its official flight duties, *Enterprise* was flown to Europe in 1983 where it was displayed at the Paris Air Show and also made stops in Bonn, Cologne, Rome and London. On its return home from the international tour, *Enterprise* was displayed at Ottawa, Canada, and several U.S. locations. From May to November 1984, *Enterprise* was a featured attraction at the New Orleans World Fair.



The prototype orbiter *Enterprise* undergoes flight tests atop its 747 carrier aircraft. *Enterprise* probably took her last ride as the test article flew to Dulles last Monday.

NASA photo

Lockheed engineering genius profiled: 'Kelly'

By Brian Nicklas
Avion Staff Historian

KELLY—More Than My Share Of It All, by Clarence L. "Kelly" Johnson with Alan W. Smith. Smithsonian Institution Press, Washington, DC 209 pages, 21 photos.

Although the biography of one of the world's foremost aeronautical engineers, this book is not all numbers and charts. As it tracks the lifetime of one who has held a lifelong interest in aeronautics, it appeals to those coming from the same ground. A work such as this is also useful in explaining one's interest in flight.

But **KELLY** is not without its shortcomings. There is the minor discrepancy of captioning the photo of the SR-71 production line as being one of U-2 production, to the omission of details that

while being more technical, would have made the story of Johnson's career more interesting.

The book starts with Johnson's childhood, and he takes time to explain how he was given the nickname "Kelly." It seems Clarence is not an appropriate name for a kid who can hold his own in a fight.

Tracing through his school years, Johnson's inquisitive nature shines out, always questioning, a quality that seems lacking in most today. Working his way through the University of Michigan as an engineering assistant, he spent a lot of time in the wind tunnel where he found that a new Lockheed design was unstable.

After searching the country for work, Johnson finally found work at Lockheed. That was in 1933, and he has been with them ever since. Even today, he maintains an office there, although he is officially retired.

Most of the air, aft that have been produced by Lockheed since 1933 have had a touch of Kelly Johnson in them, whether it was with him as an engineer, flight test engineer or production chief. The Electra, Hudson, P-38, U-2 and the Blackbirds are products of his beneficial touch, and he deserves these and more.

The book ends with his thoughts on the present and future of America and aerospace, and in reading these words one finds that Johnson is a man who takes terrible pride in his country, but he won't pull any punches when he thinks something is awry. This is a fine book, and I recommend it, but I just feel that there's something he is not telling us. Perhaps after a few more years pass, a definitive biography, rather than an autobiography, will be written.

Review copy courtesy Smithsonian Institution Press



C.L. "Kelly" Johnson

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...if you're not afraid to shop around for a lawyer

Cross Country Team ends season ahead

By Nick Sirianni
President

The Embury-Riddle Cross Country team closed out its season last Saturday, November 9, with a victory in the 1st annual ERAU Cross Country Invitational at the Cape Canaveral Seashore Park.

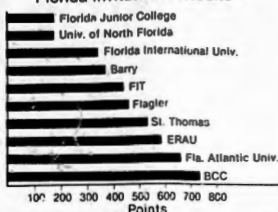
The team finished its second season in three years with a respectable 16 wins and 27 losses. Eight members of the team earned varsity letters this year, they

are: Lenny Faulkenberry, Rob Glascock, Rob Mohr, Steve Schelling, Nick Sirianni, Jeff Steen, Tom Waterman and Willy Westgaard.

Race results from the Florida Invitational at Gainesville on October 26, had the ERAU team finishing 8 out of 14 teams in division II.

The Running Club is starting a track team in the spring. For more information contact Nick Sirianni at box 6387 or call 252-8794.

Florida Invitational Results



Members of the Embury-Riddle Rugby team battle it out in a hard-fought match last Saturday at the airport field.

Brian's Football Pool

Atlanta	at	Chicago
Cincinnati	at	Cleveland
Detroit	at	Tampa Bay
San Diego	at	Houston
Washington	at	Pittsburgh
Miami	at	Buffalo
New England	at	N.Y. Jets
New Orleans	at	Minnesota
N.Y. Giants	at	St. Louis
Philadelphia	at	Dallas
Green Bay	at	L.A. Rams
Indianapolis	at	Kansas City
Denver	at	L.A. Raiders

Ohio State	at	Michigan
Colorado St.	at	Miami
Baylor	at	Texas
Utah	at	Brigham Young
Nebraska	at	Oklahoma

TIEBREAKER: Predict the score of any one game above. List teams with score.

NAME:
ERAU BOX:
PROGRAM:

Brian's Football Pool for 1985 is sponsored by Keith's "Northern Style Deli" Subs. To enter, cut out this entry form and circle who you think will win the matchups above.

Deadline for entries will be Friday, Nov. 15, at 3:00 pm. Entries can be dropped in campus mail or brought to the Avion Sports Desk.

A winner will be selected by the next issue. Winners are selected on the basis of the number of correct answers made on the entry form. Should a tie occur, the winner will be selected by the most accurate prediction of any game listed. The closest score will be considered the prediction which comes closest to both teams points. For instance, a person who guessed a score of 27-24, for a game ending with score 24-20, would be off by seven points.

The winner will be awarded a large sub sandwich FREE from Keith's Subs.

One entry per person. Remember to select a winner for every game and be sure to predict a score for a tie breaker.

Last week's winner was Wm. Kessel who correctly guessed 15 out of 17. The winning entry form will be posted on the bulletin board by the sports desk.

Good luck this week.

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Vet's Club -

By Lisa Doyle
Vets Club Writer

Hello, pilgrims. With Thanksgiving this weekend, I'm absolutely positive we are all ready for a break before final "suave" ourselves with turkey and anything else that will fit on the plate. Brain food. Then the final barrage of one more round of tests, and then that 6-letter word everyone hates, before splitting for Christmas.

But the Vet's Club is still in action! Last week's meeting was devoted to the official awarding

of a \$2000.00 check to We Organized Against Rape (W.O.A.R.), this year's Regatta recipients. Laura Benson, W.O.A.R. Spokeswoman, explained the funds would go to video equipment for child education, television and bill-board advertising for Rape Hotline, counseling for all ages, and varied doctor's bills for victims. Also, phone bills were an issue because the center accepts all collect calls directed.

New officers for the year 1986 were elected this Friday, November 22, 1985, at 7:30 p.m.

ΣΧ - Sigma Chi

By Claude P. Franco
Chapter Correspondent

Sigma Chi has been very active in planning little sister initiation, training pledges, the fall formal dance the "White Rose," and other social activities.

On Saturday, November 16, Sigma Chi will initiate four new pledges into the little sister program. These four well-rounded ladies are: Pam Messmer, Jackie Olson, Krista Upson, and Carolyn Weiner. Throughout the trimester the girls have held car washes and raffles for fundraisers and were instructed on the high ideals of

friendship and learning by little sister chairman Ross Sicron.

Pledge trainer Bill Ulm is now in the process of training eleven pledges who are organizing a house project and finishing up on their school project. The pledges helped security with setting up and cleaning at the Otis Day and the Nights concert. Also in the future for the pledges is their national exam on the 23rd of November.

The fraternity is planning on a excellent turn out for the formal dance, the "White Rose," which is to be held at the Treasure Island Inn on November 16.

ΘΦΑ - Theta Phi Alpha

By Cathy Suarez
TPA Correspondent

The Theta Phi's are on the go! We're helping out in the Campus Ministry's Food Drive this month. We've been eagerly scouting Daytona Beach asking for donations of canned or

packaged food for the needy. Our efforts will continue up until Thanksgiving. At that time, the Campus Ministry will distribute the food collected to the needy families in the Daytona area. We encourage Riddle students to take part in this charitable endeavor. Any canned or packaged food

in the CPR. All dues-paid members are strongly urged to attend and vote. Your decision may affect the Vets Club for the entire upcoming year, so everyone's judgement and input is desired and appreciated. Please Attend!!

And last, but certainly not least, we shall hold the "Vets Club Christmas Extravaganza." Once a year we all get dressed up and feast and exchange gifts (with a twist). Those planning to attend the party, set for Saturday, December 7, 1985, please bring a wrapped gift ranging in price between \$5 to \$10. You shall find what's new received when it's all over...

White Rose Champion Leo Shanolen is expecting a full house and some guest appearances from several alumni. These alumni should be quite happy with the condition of the house. With the new pillars and roof, the house is looking sharp.

Another event for Sigma Chi is a fundraising party planned for November 23. This event will be open to all and will benefit Sigma Chi's Wallace Village for Children located in Broomfield, Colorado. The Wallace Village is a national center for training and rehabilitation of children with minimal brain damage. The party will have beverages, food, music and a good time for all. Please come and help us help others.

you may have (like maybe something mom sent down which you wouldn't consider casual) should be dropped off at Dorm II, room 238.

The pledges are throwing a semi-formal bash for the members November 22. We're all looking forward to it.

Members are advised to be cautious due to a recent rampart of kidnappings!

Army ROTC

By C/Opt Laura Skamra
Public Affairs Officer

An "Azimuth" is not a large, heavy, clumsy mammal with shaggy fur and a very short tail, nor is it a type of firearm in which spiral grooves are cut into the inner barrel to make bullets spin when fired. Just exactly what is an azimuth? Ask any of the MS III cadets and each of them will reply, "Azimuth (az'-a-math), noun, the direction from one point to another point (either on the map or on the ground)."

On November 9 and 10 the MS III's were perfecting their land navigational skill in Ocala National Forest during the last Field Training Exercise (FTX) of the semester. The mission for the MS III's was to successfully complete the four Land Navigation courses that they were to engage during the weekend.

Each of the courses ranged from 200 to 2000 meters. It was extremely important that the cadets do well on the courses because it was worth 30 percent of their final grade in ROTC. The reason being that at Advanced Camp, Land Navigation is one of the five graded events which the cadets must pass. All of the lanes varied in length and covered different types of terrain. The cadets had 2 1/2 hours in which to complete the lanes. Attention to detail was the main factor in successfully completing the lanes.

C/2nd Lt. Kevin Smale obtained the highest score of 30 out of 31 possible points, due to his ability to pay attention to detail. His accuracy in calculating azimuths and distances as well as his coordination in handling a compass enabled him to lead his class in Land Navigation. Given the fact that the cadets negotiated some of the courses in a down

pour, cadet Smale's performance is quite an accomplishment.

On Tuesday, 12 November, a UH-1H (Huey) and an AH-1S (Cobra) helicopters landed here at Embury-Riddle. Cadets are urged to go and examine the helicopters and talk to the pilots whenever they visit. The pilots are always happy to answer any questions the cadets may have.

Eleven AUSA members attended a banquet held in Orlando on Monday, 18 November. The cadet's dinners were provided by the Sunshine Chapter of the AUSA which supports ERAU Army ROTC.

Scheduled for Tuesday, 19 November is a Battalion Run to the Daytona Speedway. Once at the Speedway, the cadets will run around the 2.5 mile track. The cadets won't set a record lap time, but stamina will prevail.

Question of the week: Who was the WW I fighting ace who later became President of Eastern Airlines?
Answer: Eddie Rickenbacker.



Arrived photo by Mark Starn-McGarry

Military airlift
An AH-1S Cobra and UH-1H Huey take off from the athletic field last Tuesday after spending the morning at ERAU. The helicopters were on campus as part of an Army ROTC display.

THE FIRST NEVER STOPS

CASA CALZADO
MEXICAN RESTAURANT & BAR

MONDAY: SPORTS NIGHT
TUESDAY: LADIES NIGHT
WEDNESDAY: IMPACT NIGHT
THURSDAY: T.A.L.T. NIGHT
FRIDAY: DAYTONA VICE NIGHT
SATURDAY: HOSPITALITY NIGHT
SUNDAY: Every Last Sunday of the Month

2:30 Beer Day
5:00 Dinner
Complimentary Ladies Champagne
4:00-10:00 pm
D.J. and Dancing
Complimentary Live Entertainment
Serving Hot Food
Buy 10 for 1

Any student who wants a ride down to the night launch of Atlantis is welcome to join us. Get 1st and your name into the L5 box in Student Activities.

BUS LEAVES 4:00 pm
LAUNCH 7:20 pm
BUS RETURNS 10:00 pm

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By Joe Pastina
Team Correspondent

The Precision Flight Demonstration Team would like to invite motivated students in all degree programs to apply for team membership. Applications are available in the GRW building from Kathy Ballanger.

Flight Team

The deadline for completed applications is noon November 20.

The team will be extremely busy during the next few months. Some of the upcoming events are the Region IX "tune up" meet in March at ERAU. This meet will be a dry run of the national competition. The national competition will be in Waco, Texas in

March. The flight team will also be very involved with "Skyfest." A committee of team members and coaches had developed our training syllabus. This syllabus will be the basis to prepare us for the upcoming events.

Training for ground events began Sunday, November 17. The Sunday practices are mandatory for members. In addition, a mandatory safety meeting will be held on Sunday. The air practice will begin in January for the flying events.

two hours, and covering approximately six miles. The parade was a tremendous success, despite uninvited audience participation.

The Color Guard had a special flag raising ceremony on 4 November at Father Lopez High School to honor All Saints Day, which is a Catholic holiday. On Friday, 8 November, the Color Guard participated in the opening ceremonies for the Special Olympics at Stetson gymnasium in Deland. On 11 November, the Drill Team and the Color Guard attended the Veterans' Day parade. Afterward the teams performed a flag raising ceremony at the Detachment. Currently the Rifle Team and Drill Team are working on their silent routines to be performed in the near future. A silent routine involves no verbal commands, instead each team member is required to memorize the entire routine and the number of steps in each maneuver.

We invite everyone to come on out and support DOX at the performance. Ask any DOX member about dates and locations of events. Also don't forget to "BUY A COKE FOR DOX." Coke machine proceeds are going to purchase barrels for the team commanders. Thanks for your support!

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By Thomas Rau
Historian

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Skydiving Club

By David Strom
Public Relations Officer

Since the end of the trimester is so near, the club will have a special meeting for all members this Wednesday (11/20) in room A-101. All nominations for officers will be taken at this time. I hope everyone can come. It's important. The final voting will be

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By Art Rodriguez
President, Riddle Riders

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Our camping trip was a success. While the weather was marginal when we left, only raining on our parade for a short

Lacrosse Club

By Frank Mosley
Faculty Advisor

The University of Georgia did it only once — Embury-Riddle did it twice — Defeated the Florida Gators twice in one weekend in the University of Florida Gators' Stadium.

Embury-Riddle Lacrosse Team travelled to Gainesville on Saturday morning and played two games on Saturday and two more on Sunday.

The first game was with the University of Florida, and the Riddle team won handily in a well played game, defeating the Gators 19-13. Later the same day, Riddle faced Florida State. Fatigue and injuries took its toll on Riddle from the trip and previous game and suffered a 10-9 loss in double sudden death overtime.

On Sunday, Riddle went 1-1 for the day. Florida State won 13-5 in the morning but Riddle didn't let up and went on to beat the Gators 11-5 in the afternoon game.

High scores for the attack

were: Jim "Boo" Powell with six goals and six assists; and Jon Cutrone with ten goals and two assists. The mid-field high-scorers were Dave Oberholzer with seven goals and four assists; John Kirk with seven goals and three assists; and Pete with seven goals and two assists.

Defense had outstanding play from Marty Campandola, who scored the first Lacrosse goal and received the most penalty time on the squad (seven minutes), and Eric White also scoring his first Lacrosse point.

The first regular scheduled game is on the November 23 against the Gators.

The Riddle Lacrosse Team will continue the season in January and will be hosting home matches by mid-January. The team captain and president of the Lacrosse Team was very pleased by the performance of the team in the all-season tournament, and feels that a winning season is imminent and will be shooting for the title come spring.

see the light at the end of the tunnel there is still plenty left to do around the houses.

We forget all reports are due Friday, so come up with something good, guys. I would like to remind our faculty members that we haven't seen you at the house in a while; feel free to stop by anytime. Of course, Fridays are recommended since you can see how the pledges are coming along.

Unfortunately, this is our last week for the donut sales, so buy all you can now. The new club is a Rainbow Stratoclub in a Wonderbox container. The owner showed us a few things about it; then it was voted on, and tonight, Dennis Redouty, President, will present the check to the owner.

Last but not least, we're planning a barbecue on Saturday the 23rd, to celebrate a successful trimester. Blue Stars.

Sigma Phi Delta

presentation on the space station. Last weekend the brothers and little sisters took to the woods for an enjoyable camping trip. After all the work these last few weeks, it was really great to get out there and unwind.

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For those Riddle Riders willing and able, there will be an Advanced Rider trip to the program this Saturday the 23rd. The price will be free. Meet in the motorcycle parking lot at 0730 Saturday. Wear your seat belt. Be sure to wear a long sleeve shirt, sturdy pants, and heavy shoes/boots. If interested, contact me before Saturday at 961-6287 so I can plan accordingly.

I would like to invite all individuals with an extra pint of blood to show their love to donate that stuff. On Monday, December 2nd at the Divided

See RIDERS, page 11

ΔΧ

By John Sinial
Chapter Correspondent

couragement is offered. Remember, there is still next semester, so don't give up. All promotion records are due at 1600 on 22 November.

All cadets should keep in mind that the trimester is not over yet. Practice for Pass in Review ceremonies will be held on 23 November. This will be followed by the Commander's Cup on the same day. Preparation and hard work will be the order of the day.

The last day to pick up tickets for Dining-Out is Friday, 22 November. Each cadet must pick up his own ticket. Guest tickets will be available for \$10. A policy change this trimester requires all those who pick up tickets to attend the function. Make sure you will be at the Dining-Out activities before you get your tickets.

ΔΧ

By John Sinial
Chapter Correspondent

The Fall trimester has been amazing. The Brothers and pledges of Delta Chi have been very scholastically, socially, and athletically.

The athletic program has been going great. So far, we have h-d

GEAR

(continued from page 1)

had initially with the Seminoles." In addition, the Supervisor noted that minor malfunctions can be expected with nearly every new aircraft, much like those often associated with automobiles during their break-in period, only

Delta Chi

are great time playing flag football.

might want to consider taking this test over again. The SAT will be given at area high schools during the coming months. Specific dates are posted on the bulletin board.

This has been a busy trimester for DOX thus far, with many more events scheduled for the weeks to come. On Saturday, 19 October, DOX participated in the Senior Citizens Day parade in Ormond Beach. It was short parade, but the teams worked equally hard for this parade as they would have for any other. The performance went very well. On Saturday, 2 November, DOX participated in the Bethune-Cookman College Homecoming parade. It was a long and grueling performance lasting about

Delta Chi

a great time playing flag football. Our floor hockey team is defending champions of the fall tournament.

Delta Chi entered two teams in the ERAU Bowling League. We bowled every Monday night and have a great time. Right now, Delta Chi is in third place and has the second highest game out of all the teams in the league.

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Though required to inspect the planes every 100 hours, Haun reported, "We have voluntarily instituted a 50-hour inspection interval for the Crusader. Eventually, we will shift to a 100-hour inspection interval as the total time that the bugs are worked out."

Concerning the Cessna

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The most memorable week, this year, was Greek Week. Delta Chi took a very interesting turn on our way to our third Greek Week victory in the last four years.

None of this could have been possible without the help and cooperation of all the Brothers and pledges of Delta Chi.

Crusaders, Mr. Paul McDuffee, Chairman of Flight Techniques, said, "We've learned a lot, and we're keeping Cessna informed." Commenting on the overall good performance of the Crusaders here at Riddle, McDuffee said, "The students are doing exactly as we expected them to do."

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See RIDERS, page 11

Hairmasters

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BLOOM COUNTY

by Berke Breathed



Muslim Students Assoc.

By Said Sahli
Muslim Student Assoc.

Man is the highest creation of God and architect of his own destiny. Created with the highest of potentialities; man is left free in his will, action and choice. In his will, action and choice, he follows the path of the Prophet Muhammad and the life of the Prophet Muhammad provides a perfect example. Man's greatness and salvation lie in the following:

— Islam teaches the sanctity of human personality.

— Confers equal rights upon all without any distinction of color, sex, and origin.

— God-man relationship, and man-man relationship.

— Qur'an states the economics, politics, legislation, and universal law can be built for anyone and anywhere.

CONCEPT OF WORSHIP
Islam does not believe in mere ritualism, but emphasizes intention and action. To worship God

is to know him, love him, to act upon his law in every aspect of life, to enjoy goodness and forbearance, to practice charity and justice and to serve him by serving mankind. The Qur'an presents this concept in the following sublime manner: "It is not righteousness that you turn your face to the East or the West; but 'righteousness' is that you believe in A. LAH and the Last Day; and the angels and the scripture and the Prophets; and gives his wealth, for love of him, to the needy and the wayfarer and to those who ask, and to slaves free; and observes proper worship and pay the poor-due; and those who keep their treaty when they make one, and the patient in tribulation and adversity and time of stress; such are those who are sincere. Such are the ALLAH-fearing." [Qur'an 2:177]

SIX BASIC PRACTICES OF ISLAM

Aerospace Society

By Scott Trent
L5 Correspondent

Our next meeting is tonight at 7:30 p.m. in "E" building, room E-611. Although the trimester is coming to an end, it is never too late to join us.

As a result of the annual elections, Jim Banker is now president of the club. John Getty is vice-president, Todd Rothelmer is re-elected treasurer, and Cheryl Metzger was elected secretary. The former president of L5, Ed Zanner, will be graduating this trimester. We would like to wish him the best of luck for the future, and thank him for leading

Every act which is done with the consciousness that it fulfills the Divine Will is considered an act of worship in Islam. Nevertheless, the specific acts of worship termed as the five pillars of Islam:

- 1) The declaration of faith (shahadah) which is "I bear witness that there is none worthy of worship except ALLAH, and Muhammad is His servant and messenger."
- 2) Daily five times prayer (Salah); a duty towards ALLAH is prescribed. It is a means to strengthen and enliven the belief in ALLAH.
- 3) To observe fasting during the month of Ramadan (Seyam); it is abstention from food, drink, intercourse, and all evil intentions and desires from dawn to sunset.
- 4) To give away annually 2 1/2 percent of one's net savings as a poor-due (Zakah).
- 5) Perform a pilgrimage to 'a'ba in Mecca (Hajj).

For more information contact: Islamic Center of Daytona Beach P.O. Box 1903 Daytona Beach, FL 32015 (904) 252-5554

have a star/comet gazing session after the meeting.

Also on the agenda for the night, we will be finalizing the plans to go to the night launch of the Space Shuttle on November 26. The bus will leave at 4:00 p.m. from the front of the University Center and will cost \$1.00. The launch of mission 61-B is now scheduled for 7:29 p.m. with a launch window of nine minutes.

On December 3, 4, and 5, L5 will be selling last points. They will make excellent Christmas gifts, so make sure you stop by and take care of all your Christmas shopping. "Don't forget...tomorrow, James Doohan who played 'Scotty' on Star Trek will be speaking in the U.C. at 8:30. A

— Confers equal rights upon all without any distinction of color, sex, and origin.

— God-man relationship, and man-man relationship.

— Qur'an states the economics, politics, legislation, and universal law can be built for anyone and anywhere.

CONCEPT OF WORSHIP
Islam does not believe in mere ritualism, but emphasizes intention and action. To worship God

the needy and the wayfarer and to those who ask, and to slaves free; and observes proper worship and pay the poor-due. And those who keep their treaty when they make one, and the patient in tribulation and adversity and time of stress; such are those who are sincere. Such are the ALLAH-fearing." [Qur'an 2:177]

SIX BASIC PRACTICES OF ISLAM

Aerospace Society

By Scott Trent
L5 Correspondent

Our next meeting is tonight at 7:30 p.m. in "E" building, room E-611. Although the trimester is coming to an end, it is never too late to join us.

As a result of the annual elections, Jim Banker is now president of the club. John Getty is vice-president, Todd Rothelmer is re-elected treasurer, and Cheryl Metzger was elected secretary. The former president of L5, Ed Zanner, will be graduating this trimester. We would like to wish him the best of luck for the future, and thank him for leading L5 to become "the" club on campus.

At tonight's meeting we will be selling last points. Our own Dr. Fleck will talk about the arrival of Halley's Comet. The comet has been visible in the night sky over Daytona and we're going to find out where and when to look. If it's clear tonight, we'll possibly

the month of Ramadan (Seyam); it is abstention from food, drink, intercourse, and all evil intentions and desires from dawn to sunset.

4) To give away annually 2 1/2 percent of one's net savings as a poor-due (Zakah).

5) Perform a pilgrimage to 'a'ba in Mecca (Hajj).

For more information contact: Islamic Center of Daytona Beach P.O. Box 1903 Daytona Beach, FL 32015 (904) 252-5554

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Once again, the meeting is tonight in room E-611 at 7:30 p.m. everyone is welcome to attend.

Despite what some would say, or want you to believe, they know what they're doing. Tomorrow night they're going to prove it. You have been forewarned. Don't miss it!

I'd like to thank Thomas Rau for covering for me last week, and congratulate him on a well written article. No one knew until the last minute who was going to write the article and Thomas came from the proverbial nowhere to fill in for me.

Once again, if you're spending

See CFG, page 11

CFC Christian Fellowship Club

By William Combs
CFC Correspondent

Tomorrow is the big day that everyone has been anxiously awaiting. If you haven't purchased your ticket yet, here's still time. Christian Fellowship will be selling tickets today and tomorrow in the University Center. The students support of this concert will determine whether or not we do it again.

sell out this concert from ticket sales to local youth groups alone, but this is a university event and we would like to see the majority of the ticket sales come from the students.

I guarantee you if you miss this concert, you'll kick yourself Friday morning when you hear everyone else talking about it. Like the other students, the Giants have been a professional recording act for over ten years.

It would be easy to

"YOU may be suffering from the effects of whiplash and not even know it!"

UNCLE WALDO'S SALOON · BILLARDS

beach photo



1.5 to become "the" club on campus. Anyone participating in the shuttle patch design contest: All entries must be in by tonight's meeting. There are two categories: mission specific and a general category. The specific mission is 61-J scheduled for next year. That is the mission where

December 4. At tonight's meeting we will have a special guest. Our own Dr. Fleck will talk about the arrival of Halley's Comet. The comet has been visible in the night sky over Daytona and we're going to find out where and when to look. If its clear tonight, we'll possibly

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"YOU may be suffering from the effects of whiplash and not even know it!"

"Whiplash" can occur when you are involved in an auto accident, sustain a fall or just step off a curb the wrong way. Your neck and head are thrown forward or backward in a "whiplike" action. Whiplash is serious business. The worst part is that you may not know anything is seriously wrong until days or weeks later. Some symptoms of whiplash are: neck pain, headaches, arm pain & numbness, muscle spasm, nausea, dizziness & ringing in the ears.

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*** STUDENT DISCOUNTS ***

MONEY

(continued from page 3)

English skills before they're accepted or given teaching assignments.

Iowa State Physics Assistant Chairman Stanley Williams, who says students had been complaining bitterly about not being able to understand certain grad assistants, now sounds prospective teachers out by phone. "I mad the phone call to test their English."

Testing foreign students' English skills before they're admitted to grad school, however, could depress enrollment.

"It will be tougher in the

future for (foreign) students to come to USC" if new English competency tests are adopted, Baker asserts.

Discouraging foreign students from coming to the U.S. conceivably could have a devastating impact on many American grad schools, where foreign students make up about a third of the student body.

And because starting salaries for bachelor degrees in engineering and computer science have been so high, native students who in other decades would go on to grad school are instead taking jobs in private industry.

RIDERS

(continued from page 9)

American Veterans (DAV) building located on 8th Avenue between Ridgewood and Nova in Holly Hill the Red Cross will be collecting the red stuff. In return, the DAV will provide a coupon good for a free steak dinner at a Western Sizzlin Restaurant. I am unable to provide the hours for the drive, for that information call the DAV at 252-4551.

Riddle Riders has an interesting approach to fund raising. We work for a company (FMI) selling merchandise (ie. T-shirts, hats, posters etc.) at the recently opened Ocean Center during concerts and some sporting events. The proceeds from the work are divided among the

Rider Education Fund (REF) and the club. The benefits offered to the volunteers are twofold. First they may view the show free, and second they may view the fine looking members of their opposite sex that flock to these events.

Some of the upcoming artists are the Starship (Dec. 6), Foreigner (Nov. 26), and Alabama (Nov. 29). So whoever is reading this (assuming it is published this week) and is willing to donate their time to help Riddle Riders in their effort to promote motorcycle safety contact me Art Rodriguez (box 64... or phone 761-4267) and let us work something out. See you at the show...

CFC

(continued from page 10)

Thanksgiving on campus, CFC invites you to join for a Thanksgiving dinner. All it takes is a note in our student activities

mailbox. The Student Activities office is located beside the information booth at the front of the U.C.'s it's a free dinner for anyone who wants it. Grace be with you all.



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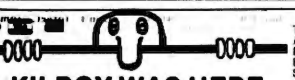
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Rentals low as 99c

Located in Daytona Mall Mon-Thurs 10-9, Fri, Sat 10-10, Sun 12-6

December Graduates

NDSL EXIT INTERVIEW SESSIONS

Tuesday, Nov. 19, 1985

Wednesday, Nov. 20, 1985

2:00 p.m. - 3:00 p.m.

or 4:00 p.m. - 5:00 p.m.

5:00 p.m. - 6:00 p.m.

10:00 a.m. - 11:00 a.m.

or 2:00 p.m. - 3:00 p.m.

or 6:00 p.m. - 7:00 p.m.

ALL SESSIONS WILL BE HELD IN THE RIDDLE THEATER A-101.

*Please call ext. 1403/1479 to schedule your appointment for your Exit Interview.

**An appointment is necessary to attend one of these sessions. No walk-ins will be allowed.

SPACE

(continued from page 4)

astronauts can waste time away staring at the Earth passing below. Johnson stated that it costs about \$28 thousand to have one man aboard the Shuttle for one hour - \$98 thousand if the astronaut is on a space walk.

Interest in the U.S. program is present internationally. Although no formal agreements have been signed, Japan and the European Space Agency are having discussions with NASA officials to determine what their role might be. Canada is also involved in developing a second generation remote manipulator arm.

Possible uses for the Station beyond the current scientific and commercial purposes may include using the Station as a platform for launching other missions. Those missions include an asteroid rendezvous and retrieval, a Mars sample return,

the construction of a manned platform at geosynchronous orbit, and the supplying of a lunar base.

Several important changes have been made in the overall design concept for the Station. In September the four pressurized modules that will make up the living and working areas for the crew was changed from a "racetrack" configuration to a "figure eight" arrangement.

The decision was also made to establish external nodes for connecting the modules. Instead of having each module connect directly, they will now be attached via pressurized nodes at each module entrance. The external nodes will allow easier expansion of the Space Station facility.

In October the design of the Station was changed from the original "Power Tower" baseline

Graduating Seniors

GRADUATING SENIORS: Just a reminder.....

If a prospective employer requests an official transcript for a job interview, we must have a written request from you before that information can be released. Be sure to fill out a Transcript Request Form before leaving campus, for your convenience.

ATC Speaker

Future Professional Women In Aviation will present a speaker to its general membership as well as to the student body, faculty, and staff Thursday, November 21 at 7:30 p.m. in E-601.

MS. JEANETTE JOHNSON will be speaking about her position as an Air Traffic Controller, how she got into the field, a general idea of the different jobs that an air traffic controller can perform, and the unique challenges women may face in this field. Johnson received her initial training at the U.S. Navy. Upon separation from the Navy, she was accepted for the last three and one-half years has worked at the Air Traffic Control Center at Daytona Beach International Airport.

Interested students are welcome to attend. Dress is semi-formal

configuration which sold President Reagan on the program, to a "stiffener" design known as "Dual Keel."

The manned modules will be mounted horizontally on the Station so that all four modules will have ten to the minus-six gravity. Each module will have its own Environmental Control System. Johnson revealed other new developments that were announced in late October. The module length will be 43.7 feet long. The hatch size will be 50 inches square with rounded corners.

The Station will be pressurized at a standard 14.7 psi oxygen/nitrogen atmosphere. With the Dual Keel configuration it will take 11 Shuttle launches to get the Initial Operating Concept into Earth orbit.

About the only thing that has not been decided, Johnson ex-

plained, was the form of the power generating system. The Station will need 75 Kilowatts of power and two systems to supply that need are up for discussion.

Either the common photovoltaic cells will be used in several large arrays, or a new idea for solar dynamics. Solar dynamics use many large mirrors to heat a fluid. The fluid will transfer its heat to another fluid which turns a turbine to generate power.

Johnson finished his presentation answering questions. His answers revealed that a new processing facility is needed at KSC that can handle Space Station equipment. He also said that 400 to 600 new jobs will be created at the Cape as a direct result of the Station.

The event was sponsored by AIAA and Sigma Phi Delta.



"TRADITION DOES NOT MEAN THAT THE LIVING ARE DEAD, BUT THAT THE DEAD ARE LIVING."

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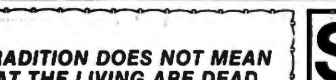
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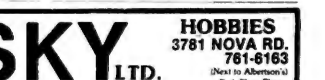
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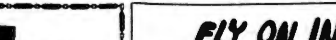
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